

## ABSTRACT

### VERTICAL COMPENSATION IN A MOVING CAMERA

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A hand-held device comprising a housing (10) shaped and dimensioned to allow the device to be hand held, a display (12) secured to the housing for displaying moving pictures on a frame-by-frame basis, and a camera (16, 18) having an optical axis (O) extending generally away from the display to image a person who is viewing the display. The hand-held device further comprises a sensor (20) configured to determine a rotational angle between an alignment axis (V) of the hand-held device and a reference alignment axis in real space. Alternative embodiments use a reference alignment axis obtained on the basis of data content of the images, as determined by image processing techniques. In this way, subjective picture quality can be improved by compensating for vertical mis-alignment of the image content of the frames obtained by the camera.